

Headquarters U.S. Air Force

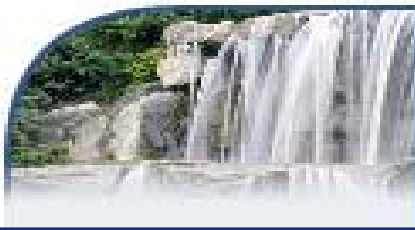
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DoD Policy Overview for Drinking Water Vulnerability Assessments

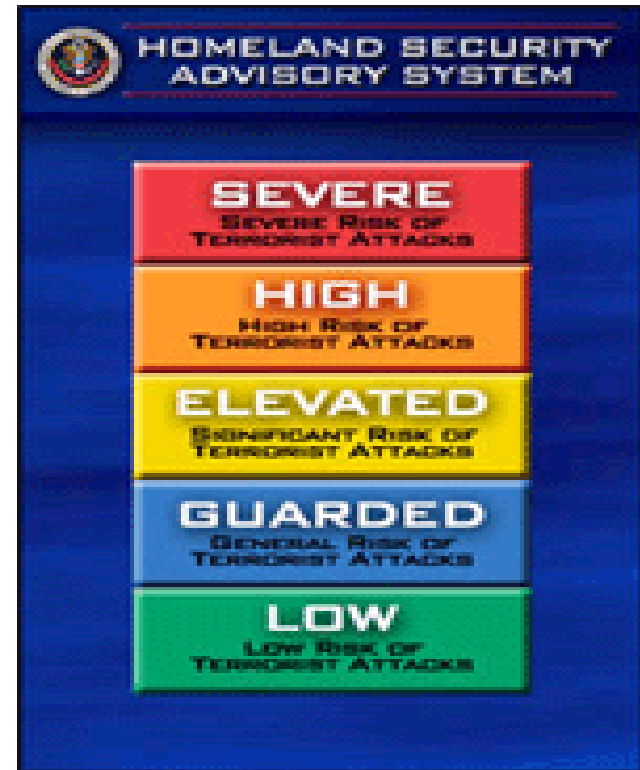


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9 Sep 03
1400-1425
Maj Pete Breed
2003 EPA/DoD/State Region III
Environmental Colloquium



- **DoD Water Policy Formation**
- **DoD Water Vulnerability Assessment Review**
- **Policy Details**
- **Execution Status**
- **Future Needs**
- **Q & A**





DoD Drinking Water Policy Formation Background

- **Within DoD, the Air Force is designated the Executive Agent for implementation of the Safe Drinking Water Act**
 - **Within the AF, Executive Agent responsibilities are delegated to the Surgeon General (SG)-recognizes public health as the key driver**
- **An AF SG representative Chairs the SDWA Services Steering Committee**
 - **The SDWA SSC includes drinking water management representatives from each of the Services**
 - **The SSC develops draft policy for DoD SDWA requirements**





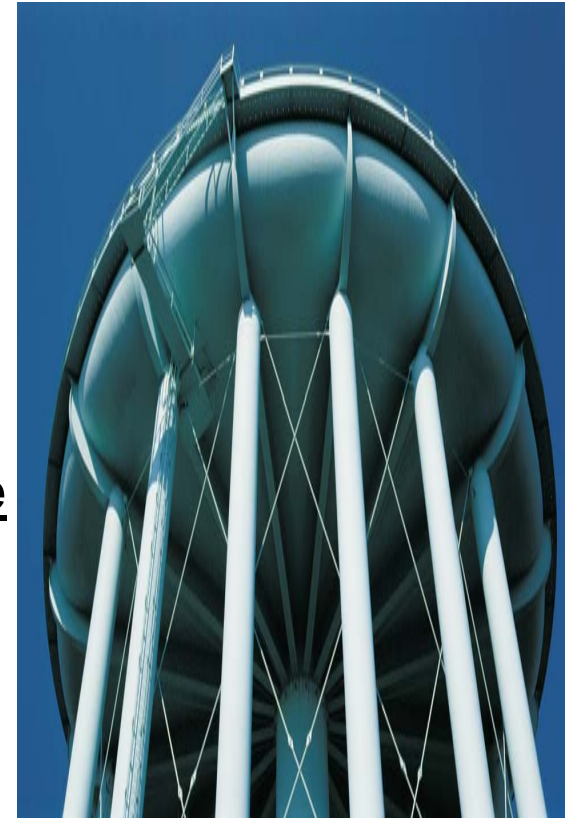
DoD Vulnerability Assessments Brief Review

- **Force Protection requirements have long identified the need for enhanced security and Vulnerability Assessments (VAs) at DoD facilities**
- **AT/FP Installation Vulnerability Assessments**
 - **Joint Staff Integrated Vulnerability Assessment (JSIVA); conducted by the Defense Threat Reduction Agency (DTRA)**
 - **Balanced Survivability Assessments (BSA); performed by DTRA**
 - **Critical Infrastructure Protection (CIP) Program performed by the Joint Program Office-Special Technology Countermeasures (JPO-STC)**
 - **Infrastructure Assurance Program (IAP) conducted by JPO-STC**
 - **Individual Service's Vulnerability Assessment Programs**

DoD Vulnerability Assessments Brief History

■ General security at DoD Drinking Water facilities has increased

- Water System Vulnerability Assessments (WSVA) are a subset of the overarching VA requirements
- WSVAs have been completed at various levels within DoD for more than a decade
- Passing PL 107-188 added a Compliance requirement to the DoD WSVA
- Combination Force Protection/ Compliance make WSVAs a high priority within DoD





DoD WSVA Policy

- **2002: Section 401 of PL 107-188 establishes WVA and Emergency Response Plan (ERP) requirements**
(Public Health Security and Bioterrorism Preparedness and Response Act of 2002)

- **Affects ~ 130 DoD facilities**

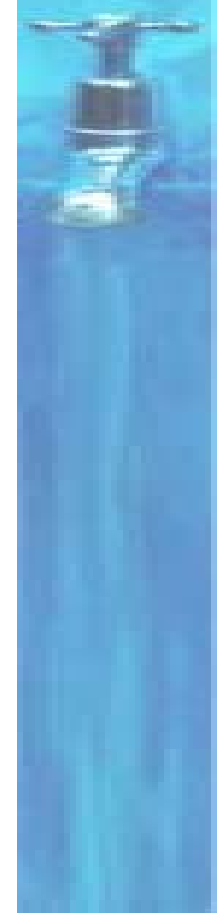
Vulnerability Assessment & Emergency Response Plan Deadlines

Systems serving population of:	Submit VA and VA Certification prior to:	ERP Certification within 6 months of VA but no later than:
>= 100,000 persons	March 31,2003	September 30,2003
50,000 to 99,999 persons	December 31,2003	June 30,2004
3,300 to 49,999 persons	June 30,2004	December 31,2004



DoD WSVA Policy


- **DoD policy signed 3 Jul 2003**
- **Extends WVA/ERP requirements to all systems > 25 people**
- **Protecting our people is the Right Thing to Do**
- **Expands coverage to > 600 systems:**
 - Overseas
 - Consecutive
 - Unregulated
 - Non-Transient Non-Community
 - Transient Non-Community
- **WSVAs required by PL107-188 will be released to the EPA; release of the DoD mandated WSVAs is NOT authorized**





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DoD WSVA Systems Affected

	<i>Army</i>	<i>Navy</i>	<i>Marine Corps</i>	<i>Air Force</i>
>50,000 Consumers	2	2	0	0
3,300-49,900 Consumers [207](130)	40 (35)	55 (21)	18 (18)	94 (56)
>25-3299 Consumers	110	93	35	176
Totals [623]	152	148	53	270

****Final Numbers have not been validated by individual Services and are estimates for planning purposes****

Services Legal Counsel advise that ALL systems >3300 are covered by Bioterrorism Act, EPA advises that SDWIS listed systems >3300 as of 1 July 02 are covered—final resolution pending

Totals include a mix of SDWIS/non-SDWIS listed systems including consecutive systems

() indicate the subset that are required a WVA/ERP under EPA



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DoD WSVA Policy Scope

- Specifies broad criteria listed in PL 107-188
- Requires a review of:
 - Pipes and constructed conveyances
 - Physical Barriers
 - Water collection, pretreatment, treatment, storage, and distribution facilities
 - Electronic, computer or other automated systems which are utilized by the public water system
 - The use, storage, or handling of various chemical
 - The operation and maintenance of the system



DoD WSVA Policy Team and Timelines

■ Assessments will be conducted by multifunctional teams

- Environmental**
- Facilities**
- Medical**
- Engineering**
- Intelligence**
- Security**
- Force Protection**



■ Timelines for non-EPA required assessment will be determined by each DoD Component

- Service have varied schedules extending to 2008**

DoD WSVA Policy Funding and Reporting

- Completion of WSVAs and ERPs will be completed as “Class 1” (must pay)

(per DODI 4715.6 *Environmental Compliance*)

- Reports appropriately classified within DoD

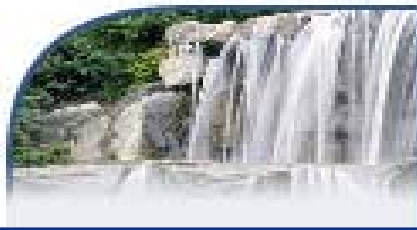
- Typically reports will be classified DoD SECRET

- EPA regulated system will release reports to the EPA, other system retain reports for internal use only

- Reports will be released to EPA through Service “component single point of contacts” to ease the burden on EPA

- Note: Not Specified in Policy- reporting compliance will be tracked by SDWA SSC





- **Individual Service Can/Are Expanding on Criteria**
 - DoD policy goal: overarching policy
 - Services policy goal: more detailed criteria
- **Individual Services Pressing Ahead at Full Speed**
 - Policy: Services have issued supplemental policies
 - Funding: Services funding all WSVAs as Level 1 and established timetables for non-EPA required assessments
 - Guidance: Services have developed guidance or adopted available guidance
 - Vulnerability Assessments: Currently being executed by the Services
 - On track for Dec 03 deadlines
 - On track for June 04 deadlines—significant workload over the next 9 months

DoD WSVAs

Long Range Objective

- Long Range Objectives

- Continue to upgrade:

- DoDI 2000.12/16/18
(AT-FP/AT/CBRNE)

- DOD Directive 5160.54
(*Critical Asset Assurance Program*)

- DoD O 2000.12H
(AT Handbook)

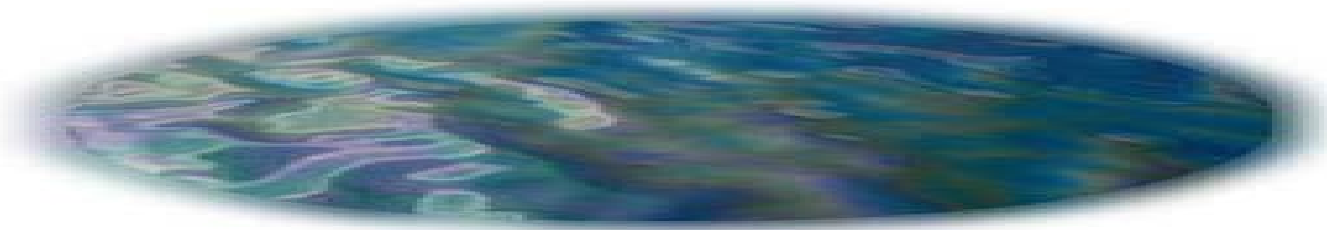
- Service Instructions

- Merge DoD Initiatives with Other Federal Agencies and Municipalities



DoD Water Open Items/Initiatives

- **Lack of real-time, direct detection systems for early warning**
 - **Limited R&D technical reviews within DoD ongoing**
- **Integrated Response Directives**
 - **Response protocols not consistent across Services**
 - **Response activities for Water emergencies are not well exercised with civilian authorities/utilities**
 - **Need to integrate ERPs across geographic communities, not just the DoD installation**





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QUESTIONS



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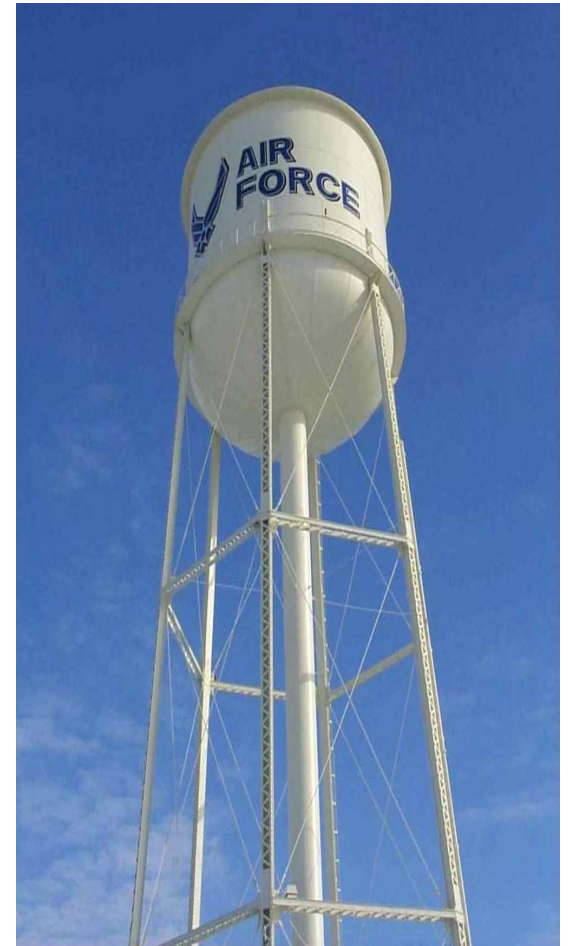
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Additional Details on DoD/AF VA Programs Affecting Water



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DoD & AF AT/FP Vulnerability Assessment Programs

- **Joint Staff Integrated Vulnerability Assessment (JSIVA) antiterrorism vulnerability assessments have been conducted at most DoD installations.**
 - **All DoD installations w/ over 300 personnel have had a JSIVA**
 - **JSIVA focuses primarily on personnel protection but includes evaluating terrorist threats to the utility systems (including water)**
 - **Detailed JSIVA Guidelines have been published which include water system criteria**
- **Balanced Survivability Assessments (BSA) are performed by DTRA**
 - **BSAs are mission-oriented assessments of critical systems and their supporting infrastructures.**
 - **BSAs have typically been conducted at nuclear command and control facilities.**
- **DTRA Website**
<http://www.dtra.mil/index.html>



DoD & AF AT/FP Vulnerability Assessment Programs

- Critical Infrastructure Protection (CIP) Program performed by the Joint Program Office-Special Technology Countermeasures (JPO-STC)
 - CIP assessments include the identification, assessment, and assurance of Cyber and Physical infrastructures that support mission-critical capabilities and requirements
 - CIP criteria have been updated to address SDWA VA requirements of PL 107-188
- Infrastructure Assurance Program (IAP) conducted by JPO-STC
 - IAP assessments focus primarily on external commercial infrastructures--energy, telecommunications, transportation and water that support installations.
 - The purpose of an IAP assessment is to characterize these infrastructures and to assess the effects of critical link or node disruptions to the installation as it supports a specific mission.



DoD & AF AT/FP Vulnerability Assessment Programs

- AF Vulnerability Assessment Team (VAT) assessments performed by the Air Force Security Forces Center (AFSFC) (Other Services have similar teams)
- AFSFC Mission
 - Provide Air Force antiterrorism policy, guidance, and oversight in support of force protection. Responsible for implementation of AF Antiterrorism programs. Actively monitors worldwide terrorist organizations, their motivations and modes of operations, and recommends actions to mitigate known vulnerabilities.
- VAs are performed by the AFSFC Force Protection Division
 - Associated with U.S. AF Force Protection Battlelab
 - Teams have infrastructure experts of many disciplines including water/wastewater Experts
- Other Services (Army & Navy) have similar teams



DoD & AF AT/FP Vulnerability Assessment Programs

- Vulnerability Assessment Management Program (VAMP).
- VAMP is a web-based management tool that
 - captures results of vulnerability assessments
 - prioritizes vulnerabilities
 - identifies deficiencies
 - lists corrective actions needed or completed
 - tracks and identifies the actions taken or required to correct and/or mitigate vulnerabilities at specific locations
 - Allow access to every commander and AT/FP officer from the theater down to the installation level



DoD Water System Specific Vulnerability Assessments

- Air Force
 - Water Vulnerability Assessment (WVA) Program
 - Mandated by AFI 48-144 Safe Drinking Water Program
 - Guidance developed by Air Force Institute for Operational Health (AFIOH) includes RAM-W and other methodologies
<http://starview.brooks.af.mil/>
- Army
 - Food & Water Vulnerability Assessment Program
 - TG 188 - U.S. Army Food and Water Vulnerability Assessment Guide
 - US Army Center for Health Promotion and Preventive Medicine -
<http://chppm-www.apgea.army.mil>
 - CHPPM Assessments include RAM-W methodology



DoD/AF Implementing Response Plan Requirements

- Air Force & DoD already have numerous regulations and directives that require Response Plans
- Example of some Air Force Regulations
 - AFPD 10-25 Full-Spectrum Threat Response (FSTR)
 - AFI 10-2501 FSTR Planning & Operation
 - AFI 10-2008 Continuity of Operations (COOP) program
 - AFI 10-211 Civil Engineer Contingency Response Planning
 - AFPD 10-26 Counter-Nuclear, Biological & Chemical Operational Preparedness
 - AFI 31-210 Air Force AT/FP Program Standards
 - AFI 32-4004 Emergency Response Operations
 - AFPD 32-40 Disaster Preparedness
 - AFI 32-4001 Disaster Preparedness Planning & Operation (Superseded by AFI 10-2501)